

## Product datasheet for **SC326826**

### **DOK7 (NM\_001164673) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DOK7 (NM_001164673) Human Untagged Clone
Tag:	Tag Free
Symbol:	DOK7
Synonyms:	C4orf25; CMS1B; CMS10; FADS3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001164673, the custom clone sequence may differ by one or more nucleotides ATGACCGAGGCGCGCTGGTGGAGGGCCAGGTCAAGCTGCGGGACGGCAAGAAGTGAAG AGTAGGTGGCTGGTGCTGCGGAAGCCGTGCCCCGTGGCAGACTGCCTGCTGATGCTGGTC TACAAGGACAAGTCGGAGCGTATCAAGGGCCTGCGGGAGCGCAGCAGCCTGACGCTAGAG GACATCTGCGGGCTGGAGCCCGCCTGCCCTACGAGGGCCTGGTCCACACGCTGGCCATT GTCTGCCTGTCCCAGGCCATCATGCTGGGCTTTGACAGCCACGAGGCCATGTGTGCGTGG GATGCCCGGATCCGCTATGCGCTCGGCGAGGTGCATAGGTTCCATGTGACAGTGGCTCCA GGCACCAAGTTGGAGAGCGGCCCGGCTACCCTGCACCTCTGCAATGATGCCTCGTCTTG GCCAGGGACATCCCCCGGCTGTACGGGGCAGTGAAGCTGTCTGACCTCCGGCGCTAC GGGGCCGTGCCAAGCGGATTCATCTTTGAAGGCGGGACCAGGGGCTGGCGTCTTCTCTCT GTCTCGGCCGAGGGGAGCAGATCAGCTTCTGTTCGACTGCATCGTCCGAGGCATCTC CCCCACCAAGGGCCCTTTGGGCTGCGGCCGTTCTACCAGACCAAGTCCCCCGGGACC CTCGACTGTGGAGGAGCGTGTGGCCAGGAAGCCCTGAAACCCTACAGCTGGAGAAGCG GCTGAGCTCCTCTCACATGCGGGCAGGCCGGCAGTGGAGGGGA
Restriction Sites:	Please inquire
ACCN:	NM_001164673
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001164673.1</a></u> , <u><a href="#">NP_001158145.1</a></u>
<b>RefSeq Size:</b>	2572 bp
<b>RefSeq ORF:</b>	768 bp
<b>Locus ID:</b>	285489
<b>UniProt ID:</b>	<u><a href="#">Q18PE1</a></u>
<b>Cytogenetics:</b>	4p16.3
<b>Gene Summary:</b>	<p>The protein encoded by this gene is essential for neuromuscular synaptogenesis. The protein functions in aneural activation of muscle-specific receptor kinase, which is required for postsynaptic differentiation, and in the subsequent clustering of the acetylcholine receptor in myotubes. This protein can also induce autophosphorylation of muscle-specific receptor kinase. Mutations in this gene are a cause of familial limb-girdle myasthenia autosomal recessive, which is also known as congenital myasthenic syndrome type 1B. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence and uses an alternate splice site in the central coding region compared to variant 4, that causes a frameshift. The encoded isoform (2) differs in the central region and has a shorter and distinct C-terminus compared to isoform 4.</p>